

Operating Instructions

Camera Adaptor
WV-PS550




Panasonic®

Before attempting to connect or operate this product, please read these instructions completely.

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CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For U.S.A -

Warning:
This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

For CANADA -

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

The serial number of this product may be found on the bottom of the unit.

You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No. _____

Serial No. _____

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

PREFACE

The Panasonic Camera Adaptor WV-PS550, is designed for use with the WV-E550 Panasonic Color Camera.

FEATURES

This adaptor converts approx. 100V DC power received from the Remote Control Unit (RCU) WV-RC700A into 12V DC, supplies it to the Color Video Camera WV-E550, and separates the video signal, audio signal, camera control signal, and control signal of the lens and pan/tilt head.

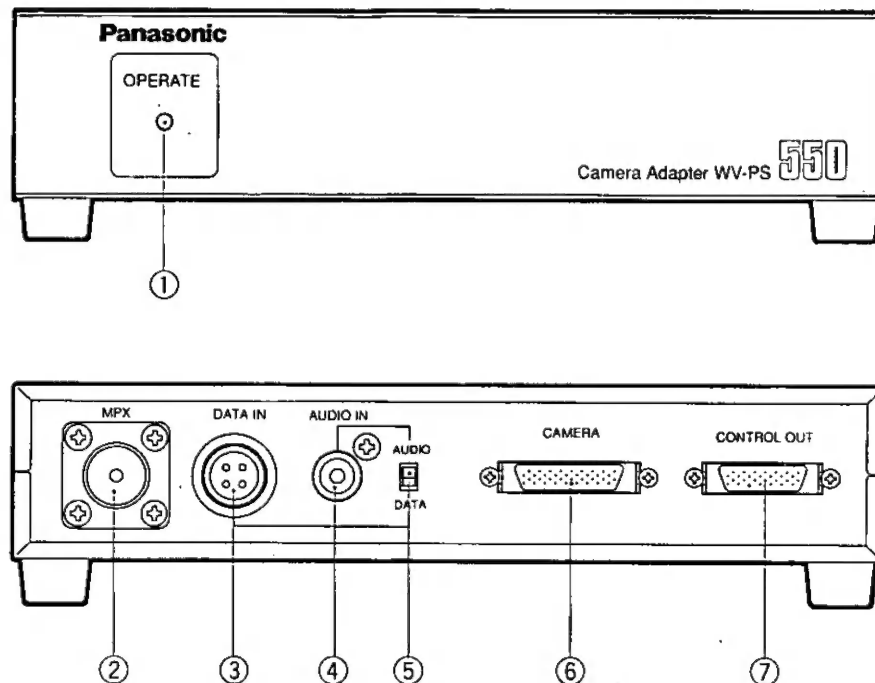
The RCU and this adaptor can be connected by using one coaxial cable (300m max. using the N connector Belden 8281 or equivalent). Also, this adaptor and the camera can be connected with the supplied cable.

A protection circuit for protection against erratic operations such as coaxial cable shorting, open, and mis connection is built in.

PRECAUTIONS

- Do not attempt to disassemble the unit. In order to prevent electrical shock, do not remove screws or covers. There are no user serviceable parts inside.
- Do not abuse the unit. Avoid striking, shaking etc. It could be damaged by improper handling or storage.
- Do not use strong or abrasive detergents when cleaning the unit body.
- Do not expose the unit to water or moisture, and do not operate it in wet or humid areas.
- Do handle the unit with care.
- Do not use the unit in an extreme environment where either high temperature or high humidity exist.
- Do take immediate action if ever the unit does become wet. Turn the power off and refer servicing to qualified service personnel. Moisture can damage the unit and also create a danger of electric shock.
- Use the unit under conditions where temperature is within 41°F - 104°F (+5°C - +40°C) and relative humidity is within 30% - 90%.

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS



(1) Power LED (OPERATE)

When the Remote Control Unit (RCU) WV-RC700A and Camera WV-E550 are properly connected and also when the power from the Remote Control Unit is supplied, this LED lights.

(2) MPX Input/Output Connector (MPX)

This connector is used to connect the coaxial cable from the MPX connector of the Remote Control Unit (RCU) WV-RC700A.

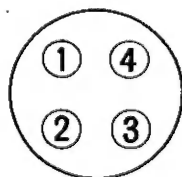
(3) Data Input Connector (DATA IN, 4-pin)

This connector is used to connect the RS-232C (baud rate 2400 bps) control signal from the pan/tilt and lens controller.

Caution:

When connecting the controller to this connector, do not connect anything to the Audio Input Jack (4). Also, be sure to switch the Audio In/Data In Select Switch (5) is set to the DATA IN position.

Pin No.	Signal
1	NC
2	GND
3	RXD
4	TXD



(4) Audio Input Jack (AUDIO IN)

This jack is used to supply an audio signal for output to the audio output of the Remote Control Unit (RCU) WV-RC700A.

Caution:

When supplying an audio signal to the remote control unit using this jack, nothing should be connected to the Data Input Connector (3) and Audio In/Data In Select Switch (5) should be switched over to the AUDIO position.

Also, be sure to switch the select switch on the MOD PCB board of the Remote Control Unit (RCU) WV-RC700A to the AUDIO position.

(5) Audio In/Data In Select Switch (AUDIO IN/DATA IN)

This switch is used to select the Data Input Connector (3) and the Audio Input Jack (4).

AUDIO IN: Audio signal supplied to WV-RC700A is selected.

DATA IN: Data signal supplied from the controller is selected.

(6) Camera Cable Connector (CAMERA 36-pin)

This connector is used to connect the 36-pin side of the supplied 28-pin/36-pin cable.

(The 28-pin side of the cable should be connected to the Color Camera WV-E550.)

(7) Control Output Connector (CONTROL OUT, 28-pin)

This connector is used to connect the cable for controlling the pan/tilt unit.

Pin No.	Signal
11	UP
12	DOWN
13	LEFT
14	RIGHT
15	DEF
16	WIPE
17	COM (0V)
19, 27, 28	GND
Others	NC

• **Control signal Interface**

Control system: ON/OFF

Polarity: Low active

Output: Open collector

(transistor withstand voltage: 30V max.)

Sink current: 20 mA max.

• **Caution:**

When driving the pan/tilt head, relay, etc. directly, care should be taken to prevent the power from going up beyond the withstand voltage of the adaptor output circuit and the sink current (20 mA max.).

CONNECTION OF RCU AND CAMERA

Caution:

The connection and installation should be done by qualified service personnel or system installers.

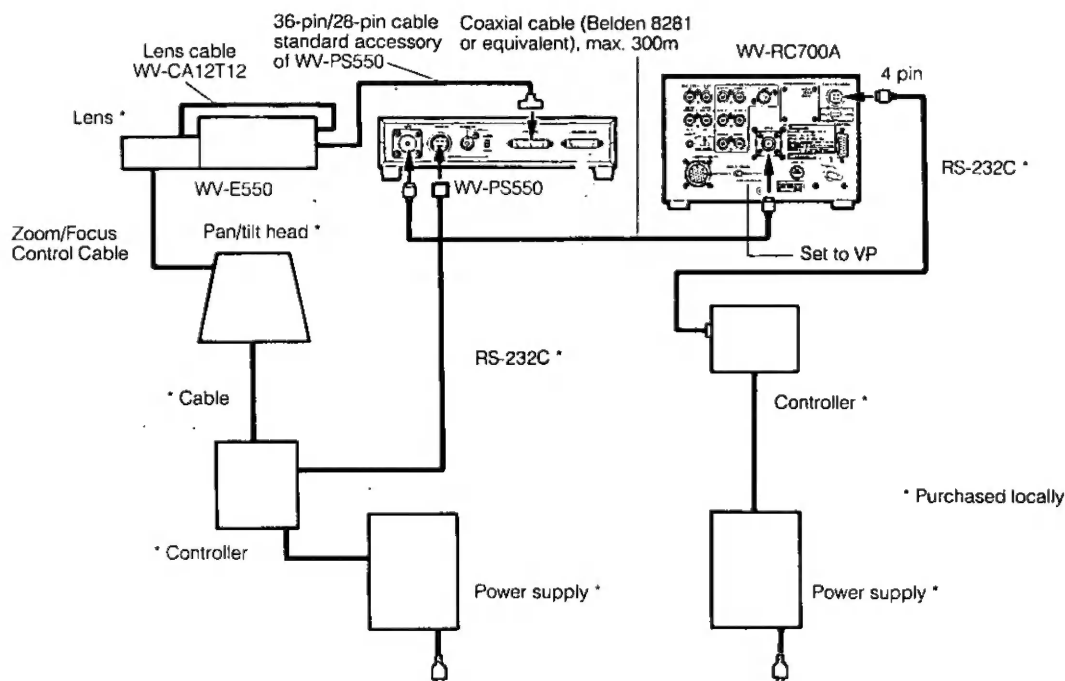
Refer any servicing to qualified service personnel.

- (1) Keep the power switch of all units turned OFF before connection.
- (2) Set the cable select switch of the RCU cable to the VP position.
- (3) Connect the coaxial cable from the MPX connector of the RCU to the MPX Input/Output Connector (2) of the adaptor.
- (4) Connect the supplied cable between the Color Camera WV-E550 and this Adaptor.
- (5) When the power switch of the RCU is turned ON, the power LED lights approx. few seconds thereafter, and the control to the camera from the RCU can now be made.

CONNECTION OF PAN/TILT HEAD AND LENS CONTROLLER

1. Pan/tilt head control system with RS-232C control

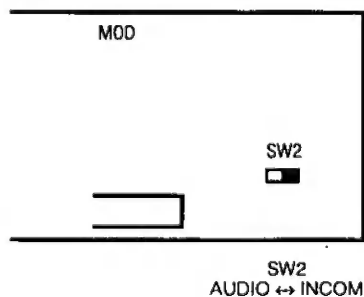
- Make connections as shown below.



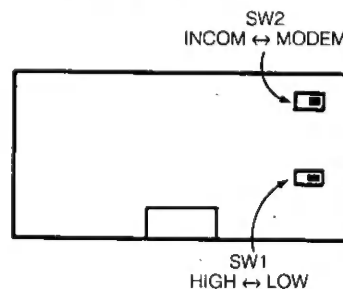
Caution:

1. The Camera Adaptor WV-PS550 and Remote Control Unit WV-RC700A have only separation or impression function from the data signal of pan/tilt head and lens controller.
The Camera Adaptor WV-PS550, camera WV-E550 and Remote Control Unit can not be controlled by RS-232C directly.
2. When connecting the controller to the adaptor, set the Audio/Data Select Switch (5) of the rear to the DATA position and do not connect any cable to the Audio Input Jack. Also, set the SW2 on the MOD PCB board to INCOM position in the RCU and SW2 on the VIDEO PCB board to the MODEM position. And set the SW1 on the VIDEO PCB board to the LOW position and set the SW2 on the REAR PANEL board to the MODEM position.

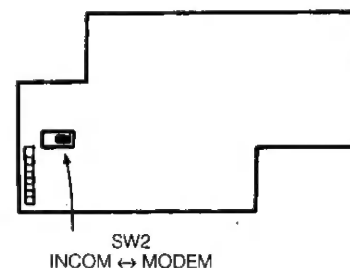
<MOD PCB, Component side>



<VIDEO PCB, Component Side>



<Rear Panel, Soldered Side>



- When the product is shipped from the factory, each switch is set to the INCOM side or the HIGH side.

- Make connections as shown below:



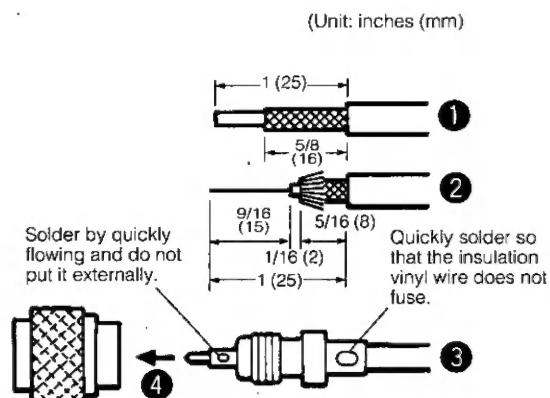
Pin No.	Signal
11	UP
12	DOWN
13	LEFT
14	RIGHT
15	DEF
16	WIPE
17	COM (0V)
19, 27, 28	GND
Others	NC

Control system: ON/OFF
Polarity: Low active
Output: Open collector
(transistor withstand voltage: 30V max.)
Sink current: 20 mA max.

1. When driving the pan/tilt head, relay, etc. directly, care should be taken to prevent the power from going up beyond the withstand voltage of the adaptor output circuit and the sink current (20 mA max.)
2. Make sure that SW2 on the MOD PCB board in the RCU WV-RC700A to the AUDIO position.

The N type connector is used on this adaptor for safety purposes because about 100V DC is supplied from the RCU. Connect this N type connector (NP5D2V) to the coaxial cable (Belden 8281 or equivalent).

- 1 Cut the outer sheath at the tip-end of the coaxial cable and the shield as well.
- 2 Pull the core wire out and fold the shield.
- 3 Insert it into the connector and solder.
- 4 Mount the ring section of connector.



Caution:

- When using this adaptor, be sure to connect the Remote Control Unit (RCU) WV-RC700A with the Color Camera WV-E550. If not connected, this equipment does not operate.
- If the coaxial cable from the Remote Control Unit (RCU) WV-RC700A fails temporarily, the power cannot be turned on even if connection is made. After connection, turn the power switch of the Remote Control Unit (RCU) WV-RC700A off and then turned on once again.
- When operating the coaxial multiplex system using this adaptor, R/G/B and Y/C from the Color Camera WV-E550 is not output from the Remote Control Unit (RCU) WV-RC700A.

Also, even when the head set is connected to the Remote Control Unit (RCU) WV-RC700A, no intercom can be used.

- When the cable selection switch is set to MULTI or MPX position on the Remote Control Unit (RCU) WV-RC700A, the voltage for camera WV-E550 is not supplied.

Set the cable selection switch to VP position on the Remote Control Unit (RCU) WV-RC700A and turned off the Remote Control Unit (RCU) WV-RC700A and turned on again.

SPECIFICATIONS

Power:	Input voltage 85 - 110V DC (supplied by the RCU WV-RC700A)
Input and Output:	
MPX Input and Output:	Frequency multiplex signal (N type connector x 1)
Data Input:	RS-232C, 2400 bps (4-pin connector x 1)
Audio Input:	-20 dB audio signal
Pan/Tilt and Housing Control Output:	Right, left, up and down, defroster and wiper Open collector output (low active) Sink current 20 mA max. Withstand voltage 30V max. (28-pin connector x 1 each)
Switch Function:	Audio in/Data in Select Switch
Dimensions:	8-1/8" (W) x 1-11/16" (H) x 9-1/2" (D) (206.5 (W) x 44 (H) x 250 (D) mm)
Weight:	5.28lbs. (2.4 kg)

Weight and dimensions indicated are approximate.
Specifications are subject to change without notice.

STANDARD ACCESSORIES

Camera Cable (36-pin/28-pin)	1pc
4-pin Connector for DATA IN	1pc
N type Connector for MPX	1pc

Panasonic

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